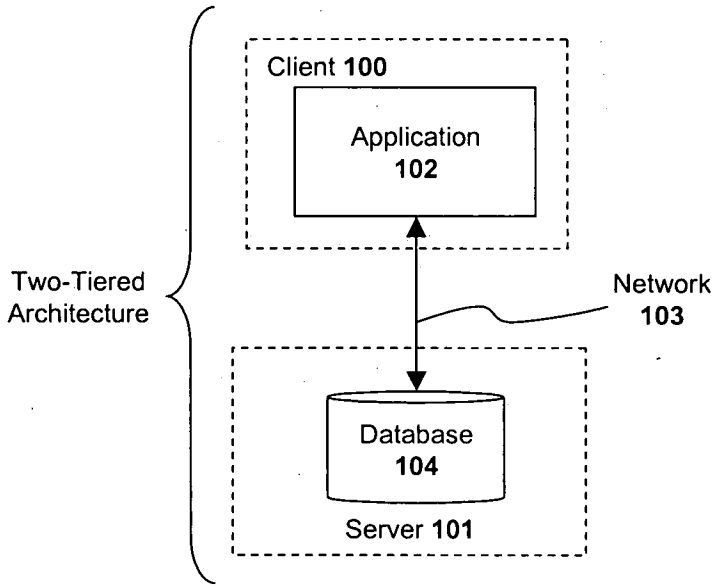

Fig. 1a
(prior art)

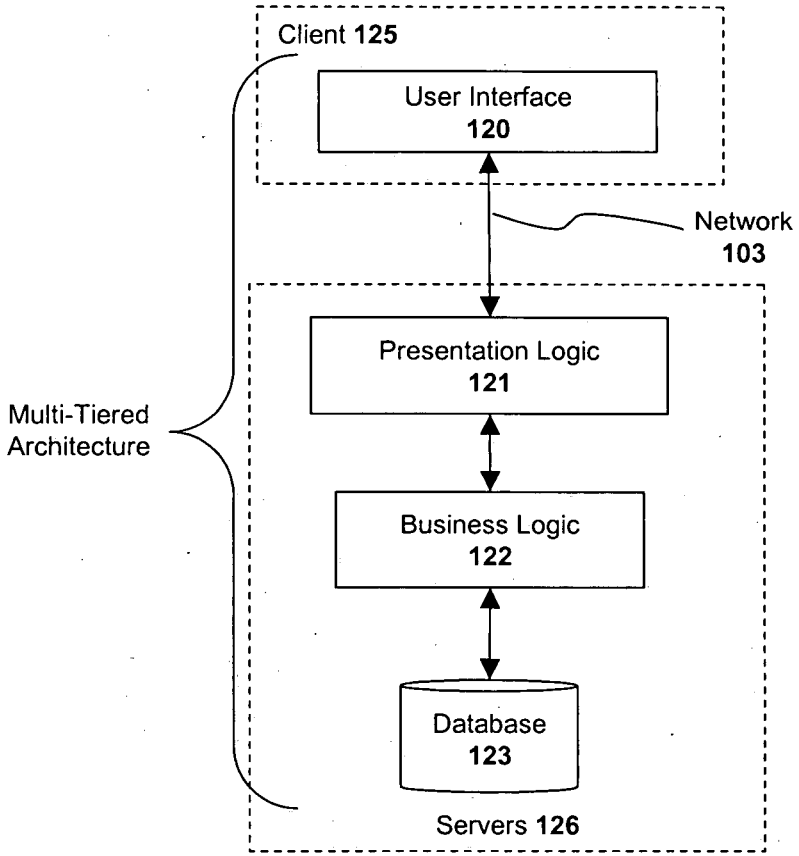

Fig. 1b
(prior art)

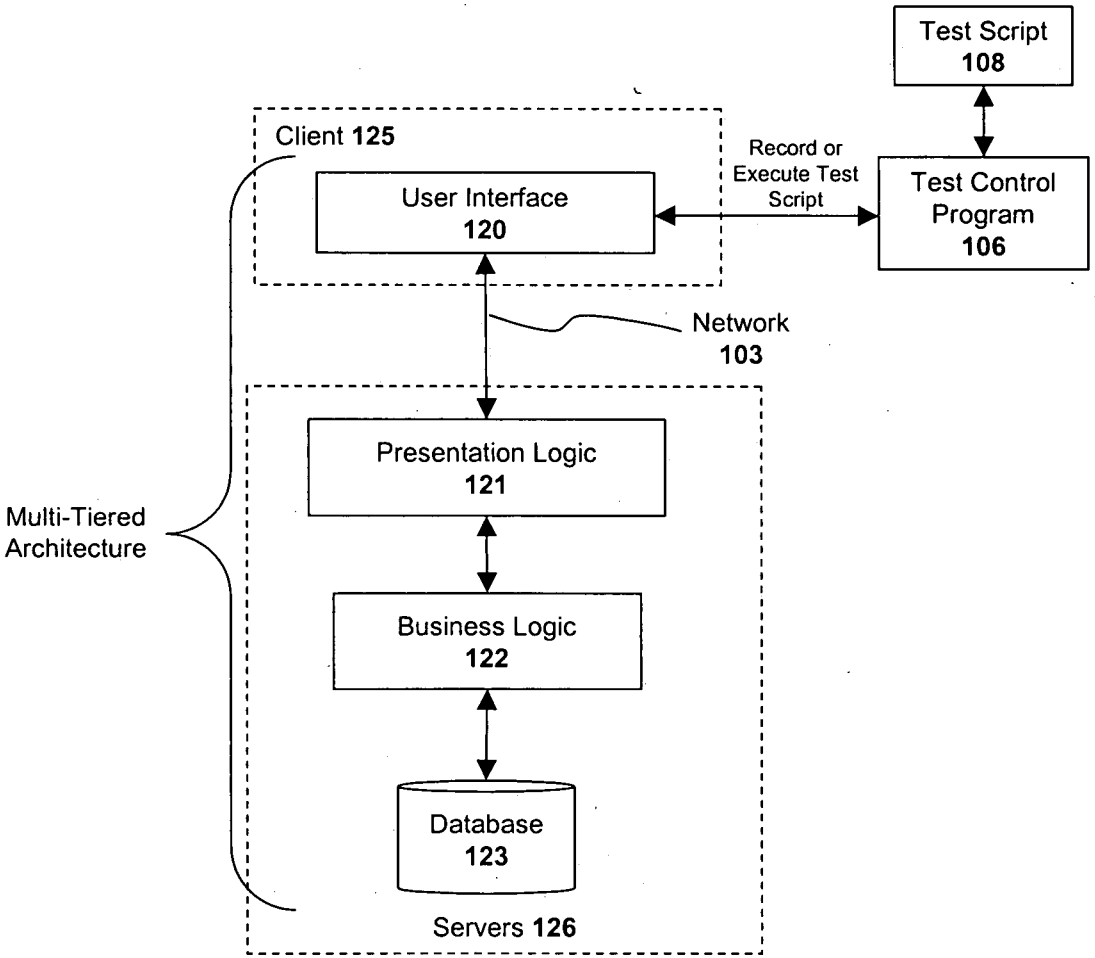

Fig. 1c
(prior art)

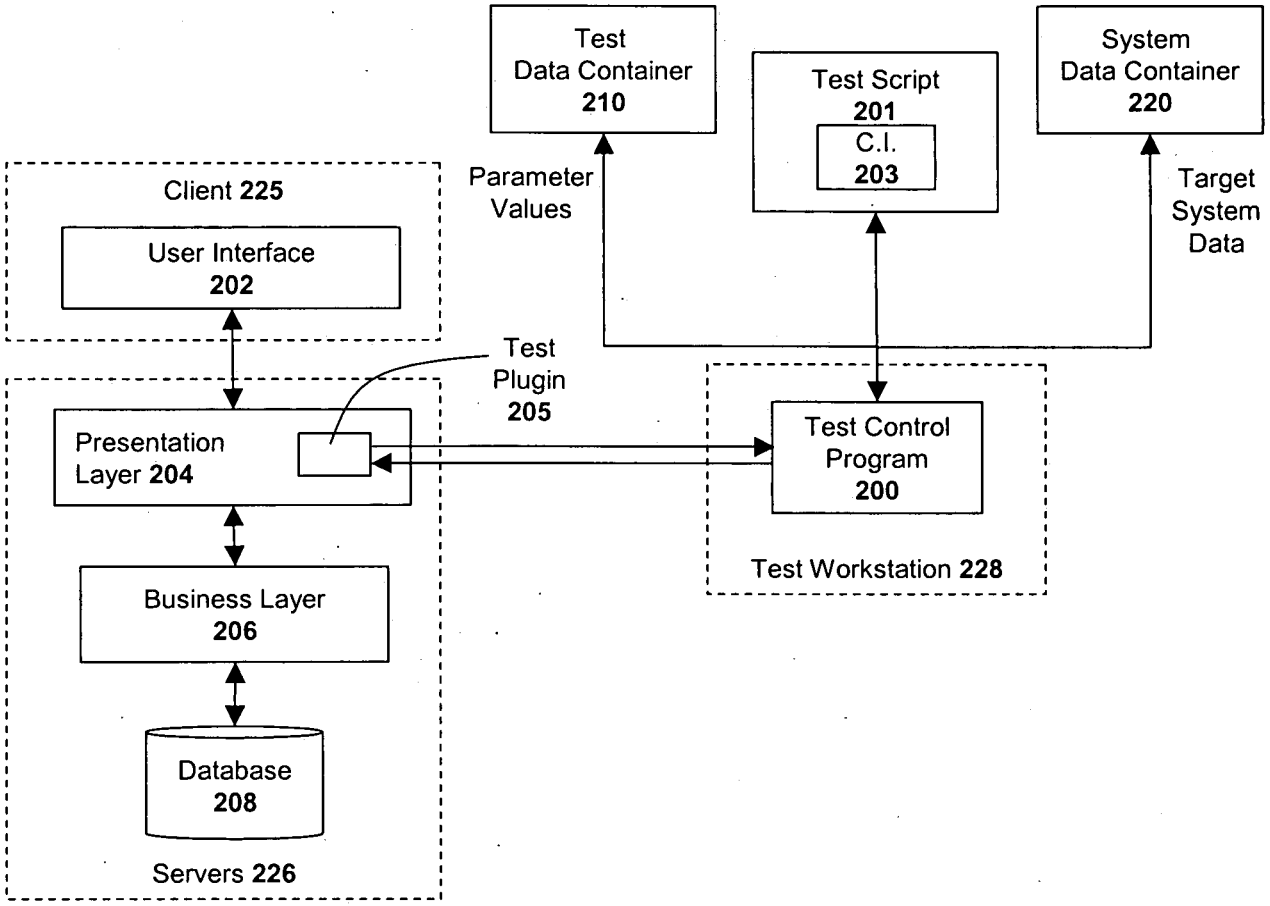
Test
Data Container
210
Test Script
201
C.I.
203
System
Data Container
220
Parameter
Values
Target
System
Data
Client 225
User Interface
202
Test
Plugin
205
Presentation
Layer 204
Test Control
Program
200
Test Workstation 228
Business Layer
206
Database
208
Servers 226

Fig. 2

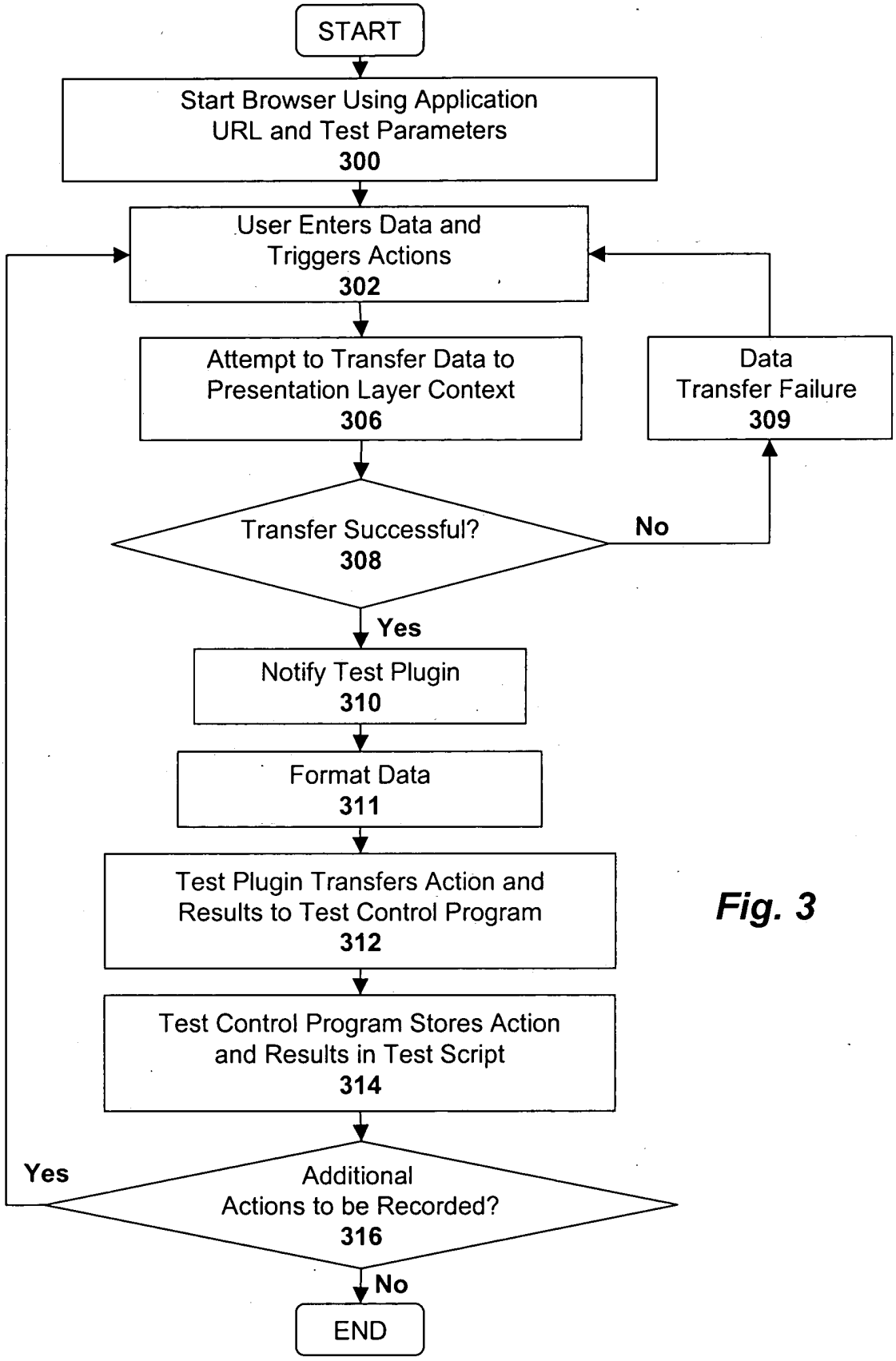
START
Start Browser Using Application URL and Test Parameters
300
User Enters Data and Triggers Actions
302
Attempt to Transfer Data to Presentation Layer Context
306
Data Transfer Failure
309
Transfer Successful?
308
No
Yes
Notify Test Plugin
310
Format Data
311
Test Plugin Transfers Action and Results to Test Control Program
312
Test Control Program Stores Action and Results in Test Script
314
Yes
Additional Actions to be Recorded?
316
No
END

Fig. 3

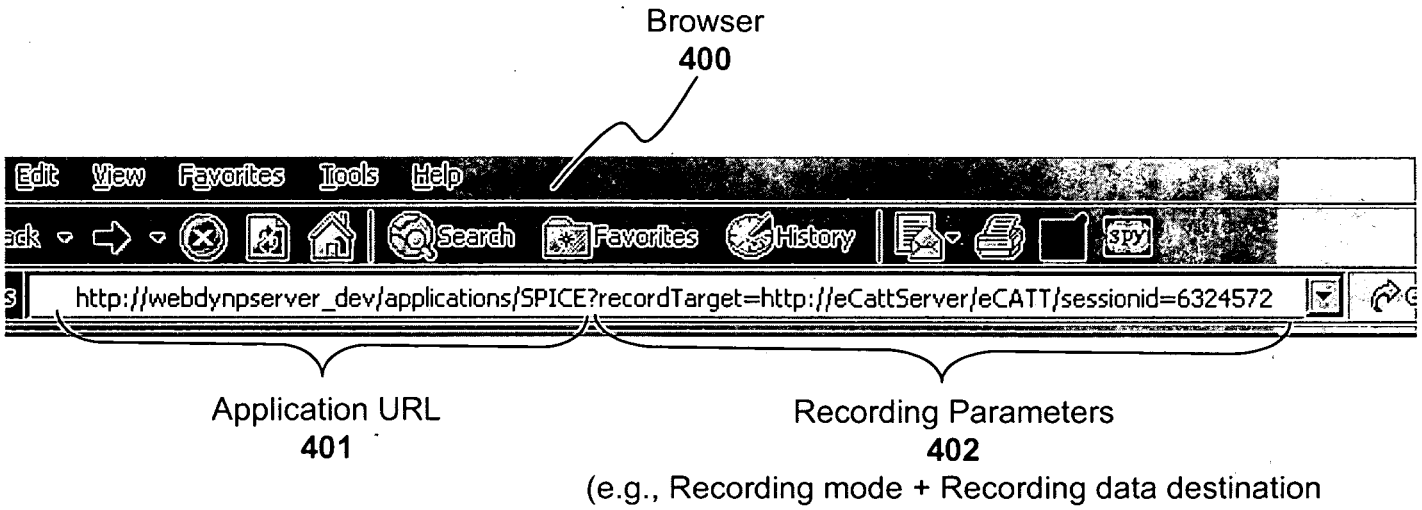
Browser
400
Edit View Favorites Tools Help
Search
Favorites
History
spy
http://webdynpserver_dev/applications/SPICE?recordTarget=http://eCattServer/eCATT/sessionid=6324572
Application URL
401
Recording Parameters
402
(e.g., Recording mode + Recording data destination

Fig. 4

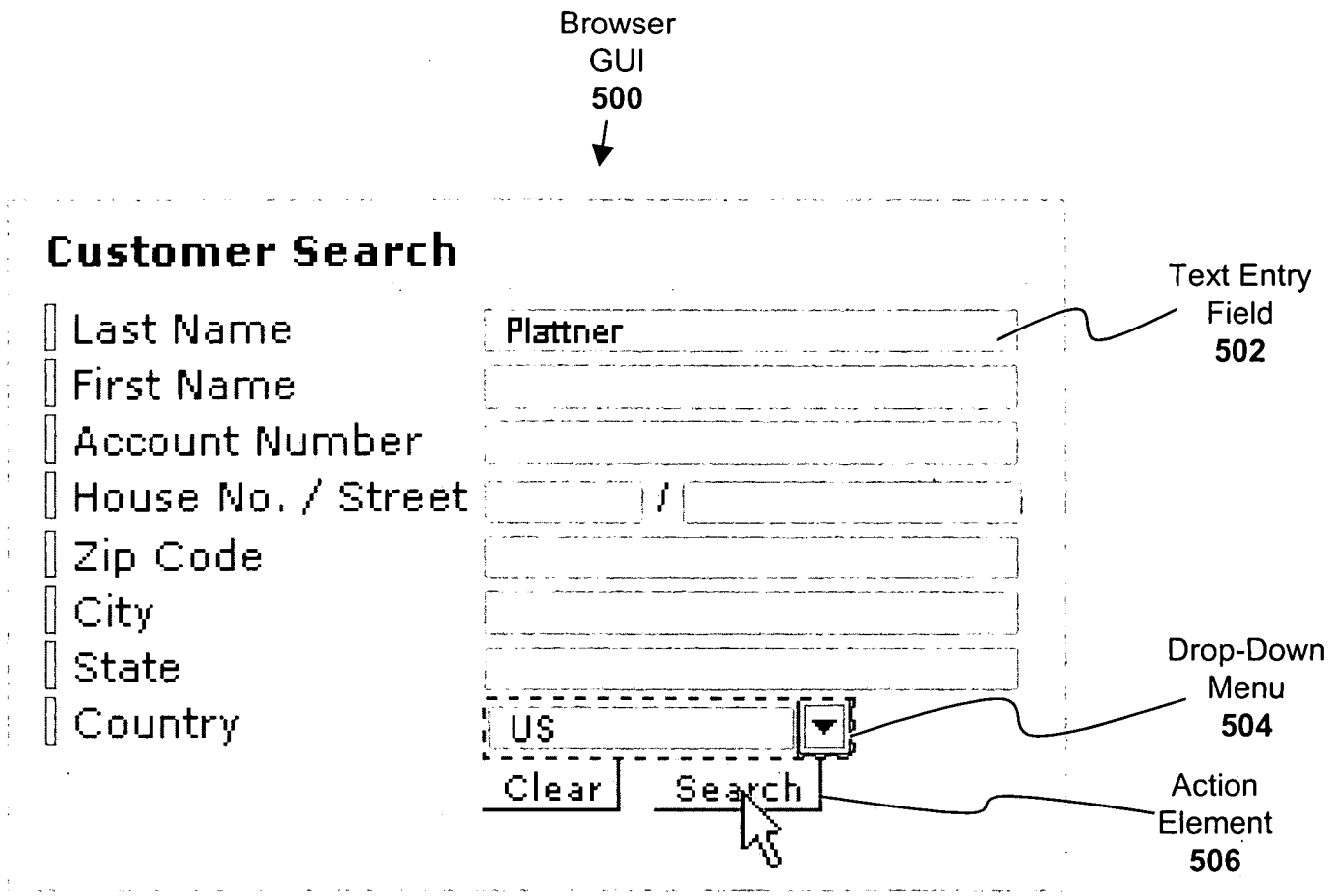
Browser
GUI
500
Customer Search
Last Name
First Name
Account Number
House No. / Street
Zip Code
City
State
Country
Plattner
/
US
Clear
Search
Text Entry
Field
502
Drop-Down
Menu
504
Action
Element
506

Fig. 5

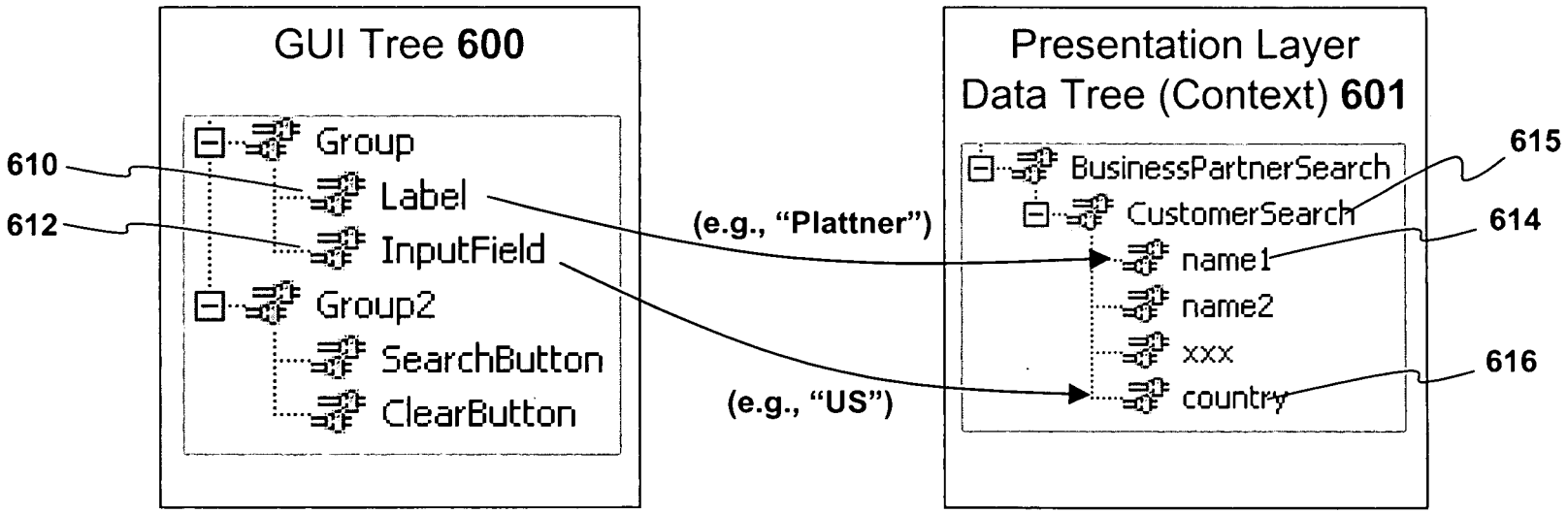

Fig. 6

Mapping of Data From GUI Data Elements to Presentation Data Elements

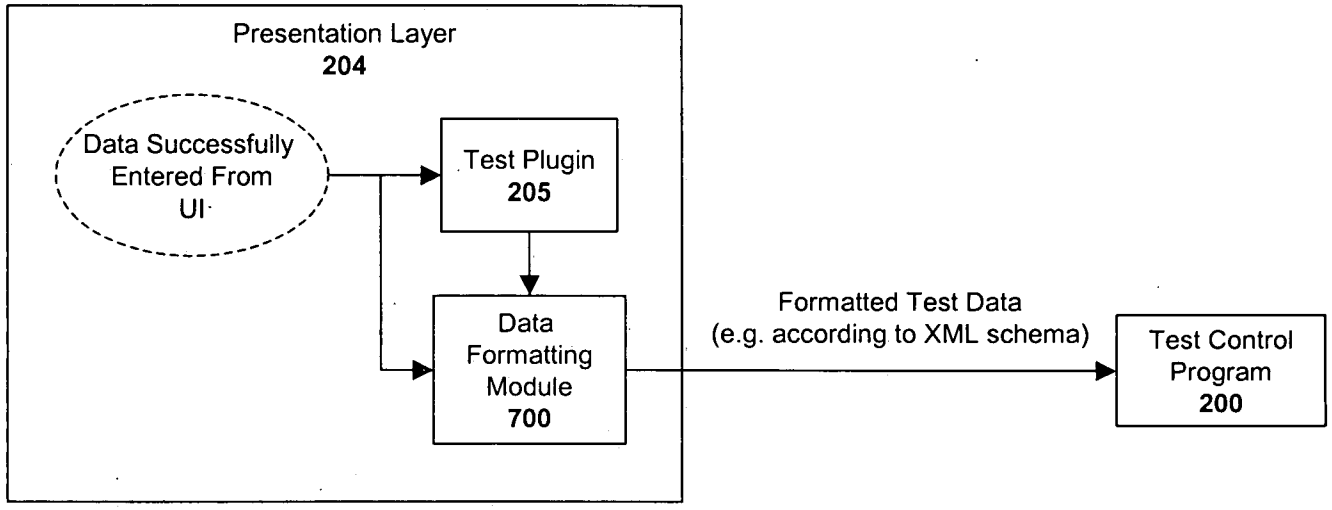
Presentation Layer
204
Data Successfully Entered From UI
Test Plugin
205
Data Formatting Module
700
Formatted Test Data
(e.g. according to XML schema)
Test Control Program
200

Fig. 7

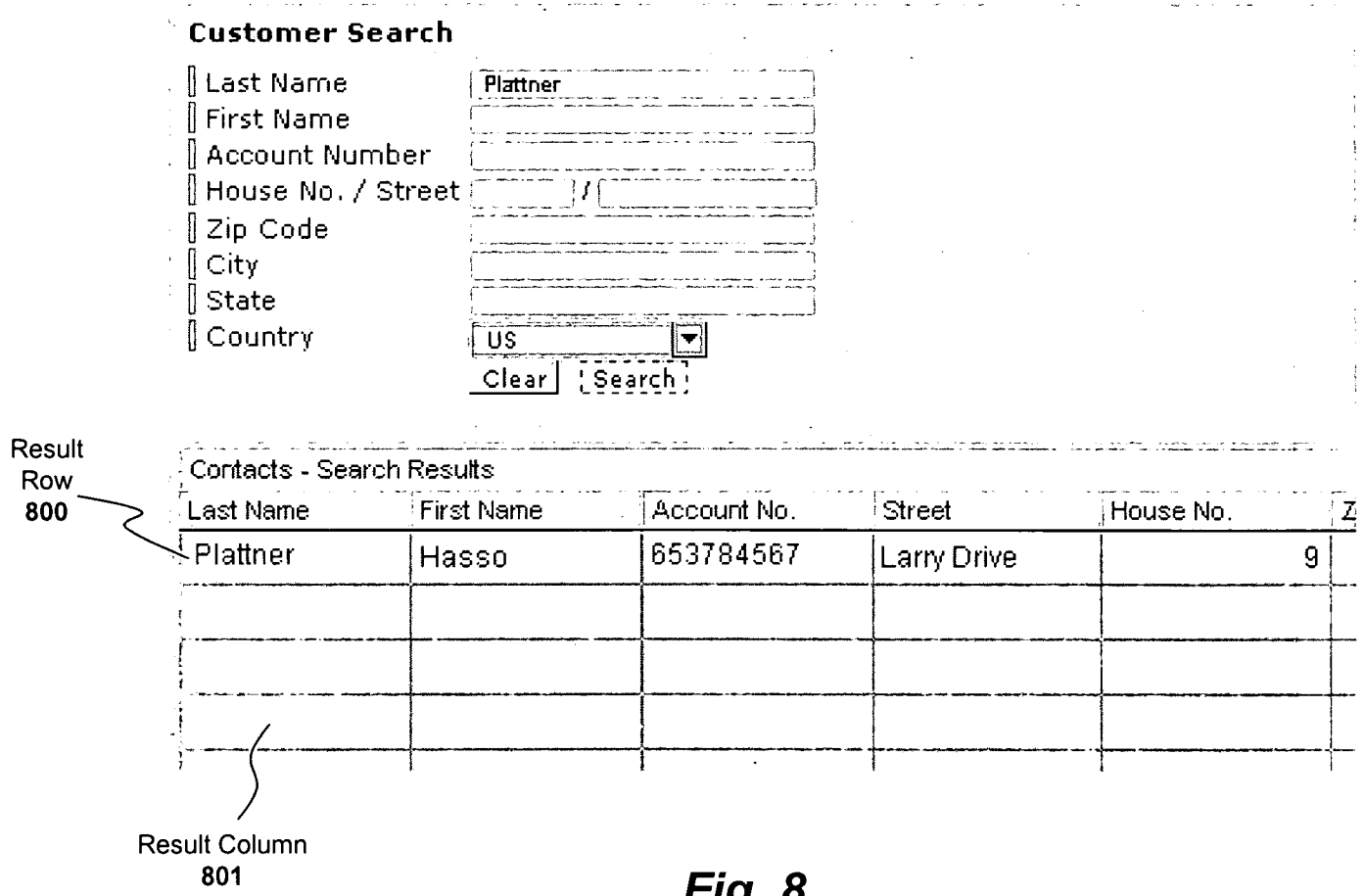
Customer Search
Last Name
Plattner
First Name
Account Number
House No. / Street
/
Zip Code
City
State
Country
US
Clear
Search
Result Row 800
Contacts - Search Results
Last Name
First Name
Account No.
Street
House No.
Plattner
Hasso
653784567
Larry Drive
9
Result Column 801

Fig. 8

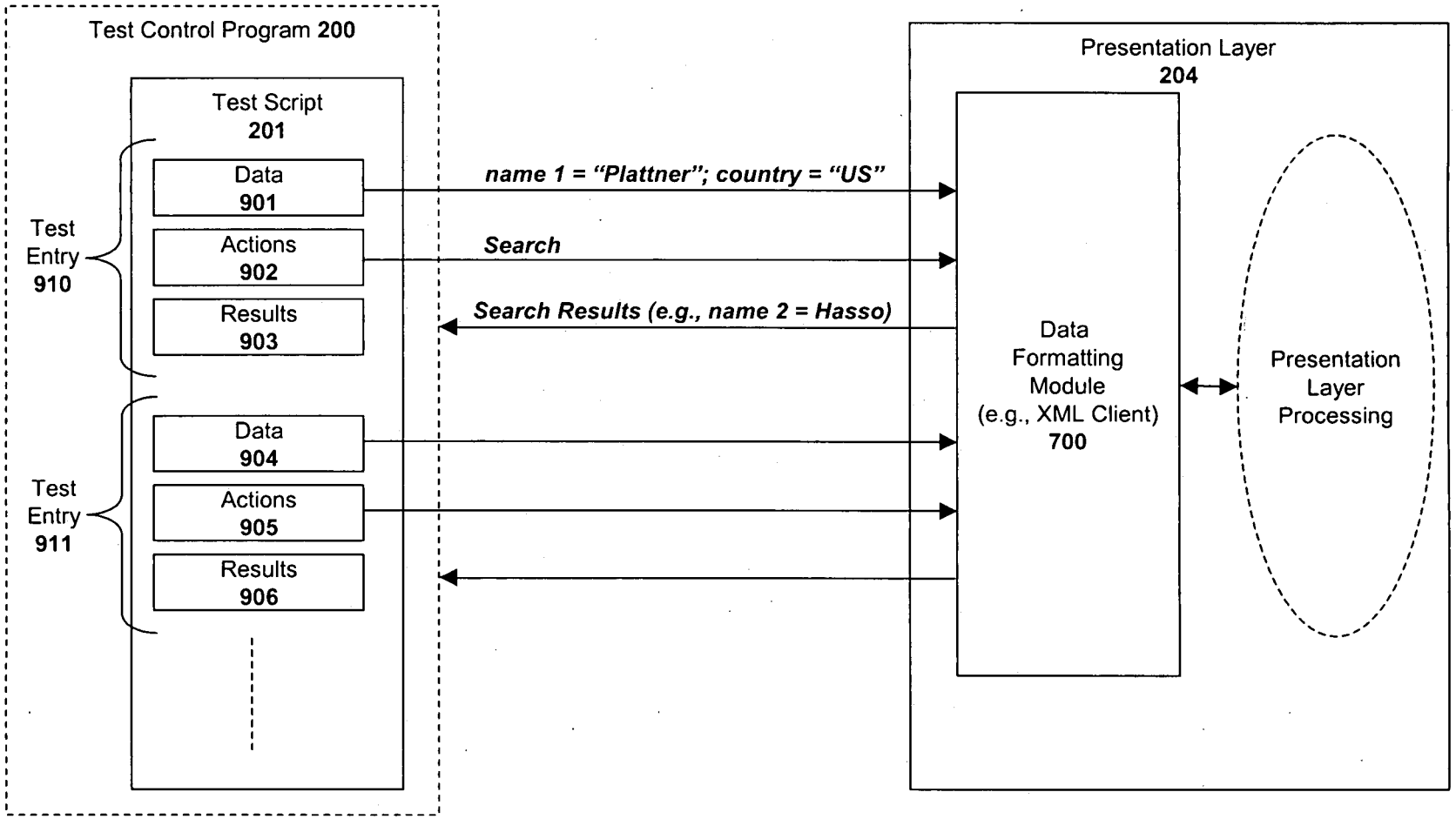
Test Control Program 200
Test Script
201
Data
901
Actions
902
Results
903
Test
Entry
910
Data
904
Actions
905
Results
906
Test
Entry
911
name 1 = "Plattner"; country = "US"
Search
Search Results (e.g., name 2 = Hasso)
Presentation Layer
204
Data
Formatting
Module
(e.g., XML Client)
700
Presentation
Layer
Processing

Fig. 9

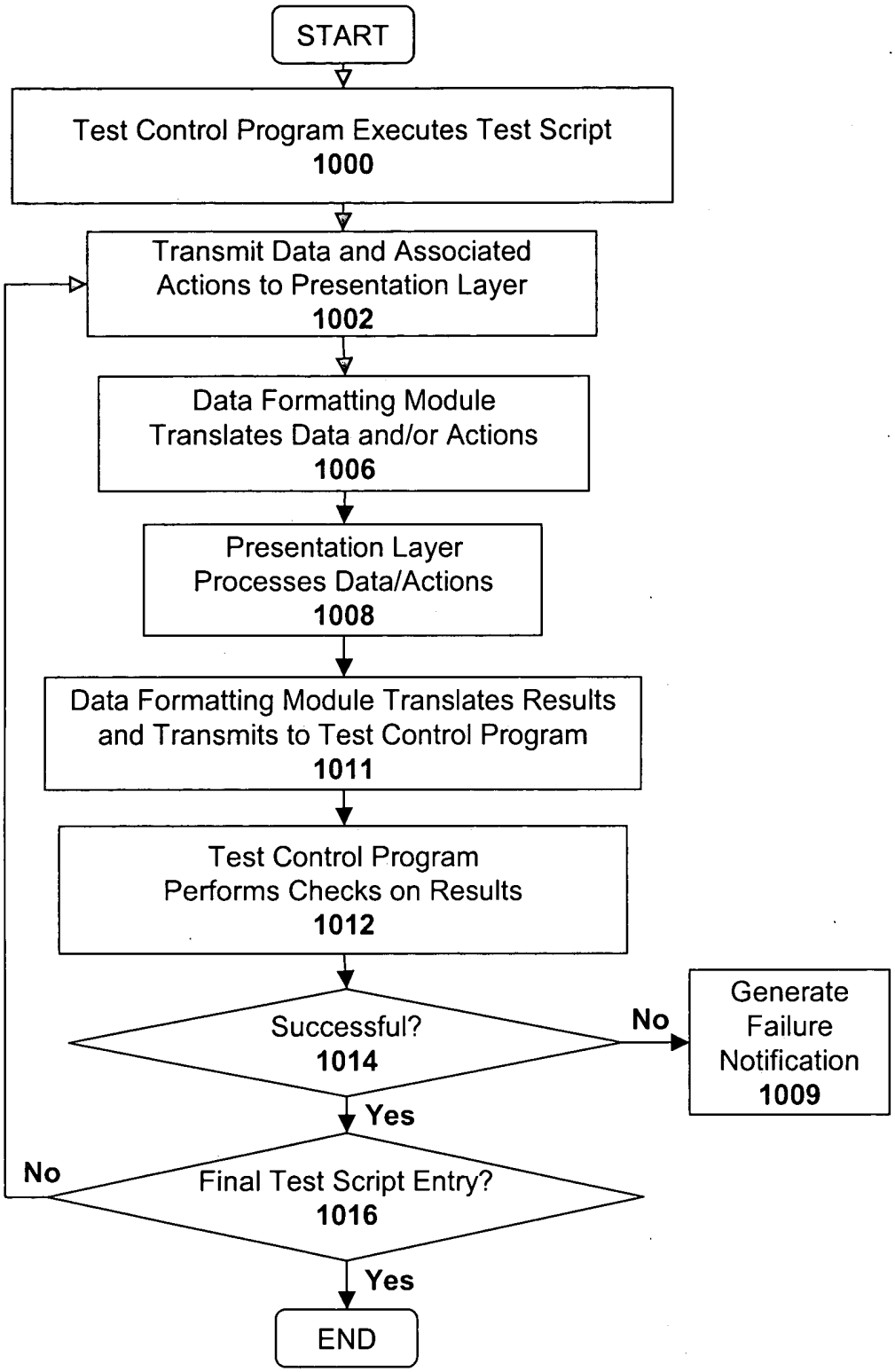
START
Test Control Program Executes Test Script
1000
Transmit Data and Associated Actions to Presentation Layer
1002
Data Formatting Module Translates Data and/or Actions
1006
Presentation Layer Processes Data/Actions
1008
Data Formatting Module Translates Results and Transmits to Test Control Program
1011
Test Control Program Performs Checks on Results
1012
Successful?
1014
No
Generate Failure Notification
1009
Yes
Final Test Script Entry?
1016
No
Yes
END

Fig. 10